GOVERNMENT OF INDIA
POWER
LOK SABHA

UNSTARRED QUESTION NO:4474
ANSWERED ON:18.12.2000
UTILIZATION CAPACITY OF THEMAL AND HYDEL POWER PLANTS
P.R. KHUTE

Will the Minister of POWER be pleased to state:

(a) the capacity of thermal and hydel power plants being utilized in the country in comparison to America, United Kingdom, Russia, China, south Korea, France and Australia;

(b) whether the assessment in regard to utilization of the installed capacity of thermal and hydel power projects was made at the time of their installation; and

(c) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF POWER(SHRIMATI JAYAWANTI MEHTA)

(a): The capacity utilisation of thermal and hydro plants in India (in 1996) as compared to America, United Kingdom, Russia, China, South Korea, France and Australia is given below:-

Country/year	Net installed capacity(thousand KW)	Total	Thermal	Hydro	Nuclear	Geo-thermal	Utilisation of Installed capacity (in KWH/KW) electric generating
United States	783502	4416	4176	3528	6672	3915	
U.K.	73262	4737	4411	1158	7330	4226	
Russia Federation	210857	4018	3999	3771	4661	2727	
China	217067	4981	5335	3759	6285	-	
Korea Republic	39239	5799	5595	1681	7688	-	
France(including Monaco)	109443	4638	1634	2801	6626	2279	
Australia	39693	4467	5016	2101	-	3500	
India	96803	4466	4777	3483	3596	2108	

(b) & (c): According to the norms of operation and Plant Load Factor (PLF)stipulated by the Government of India notification of 30.03.1992, Plant Operating hours of 6000 hours/KW/Year (68.49% of PLF) is considered while assessing Thermal Power Projects.

As regard Hydro Power Plants, storage Hydro Power Plants aredesigned for peak load operation/low load factor operation. Run-of-river hydro plant with diurnal pondage are normally designed to operate at base load during monsoon period and to provide peaking support during lean winter months. Generation from Hydro Power Plants depends upon the inflow in theriver, prevailing reservoir conditions, requirement of water for various other uses, etc. These aspects are duly taken care at the stage of project appraisal.